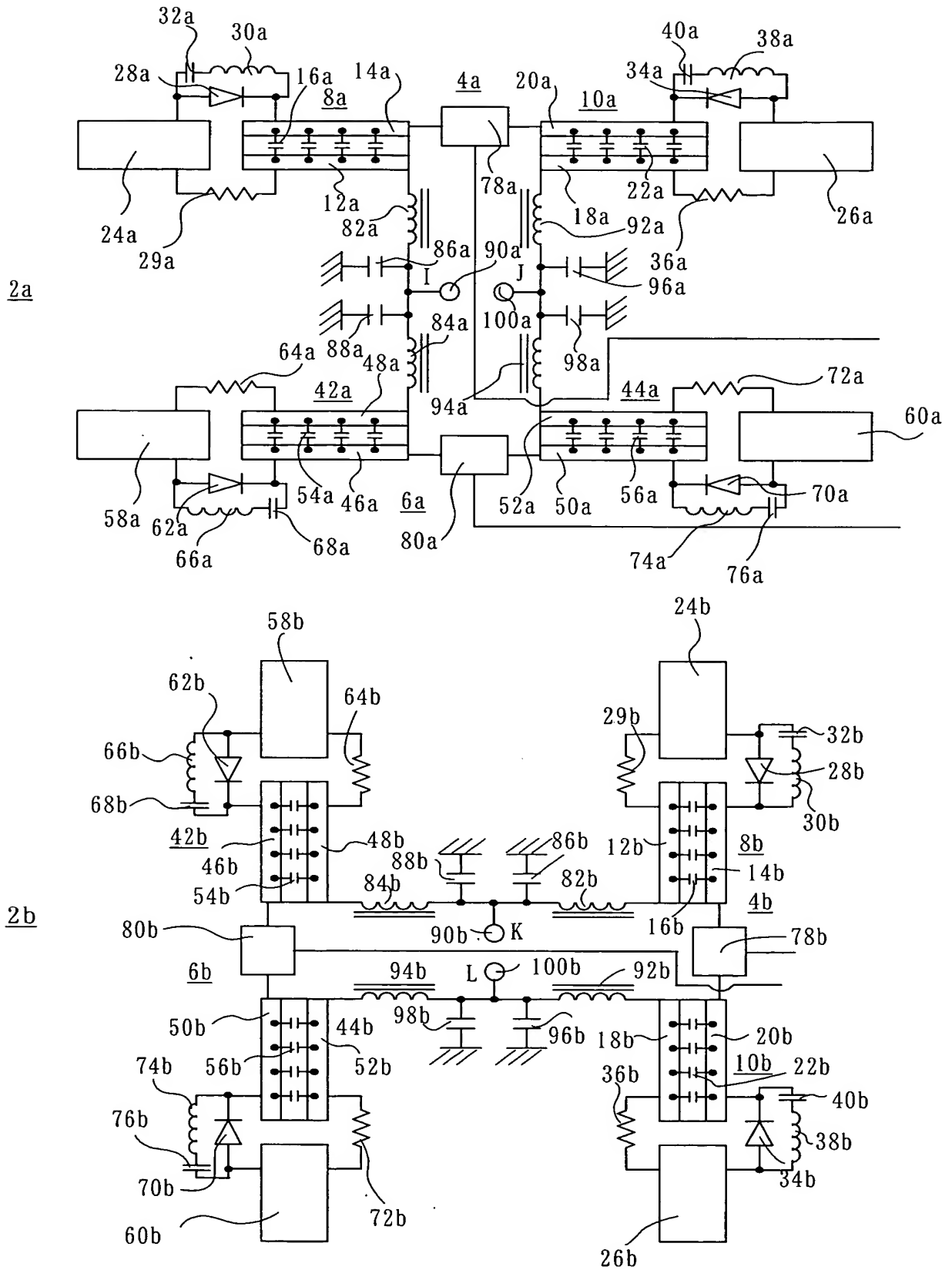


FIG. 1



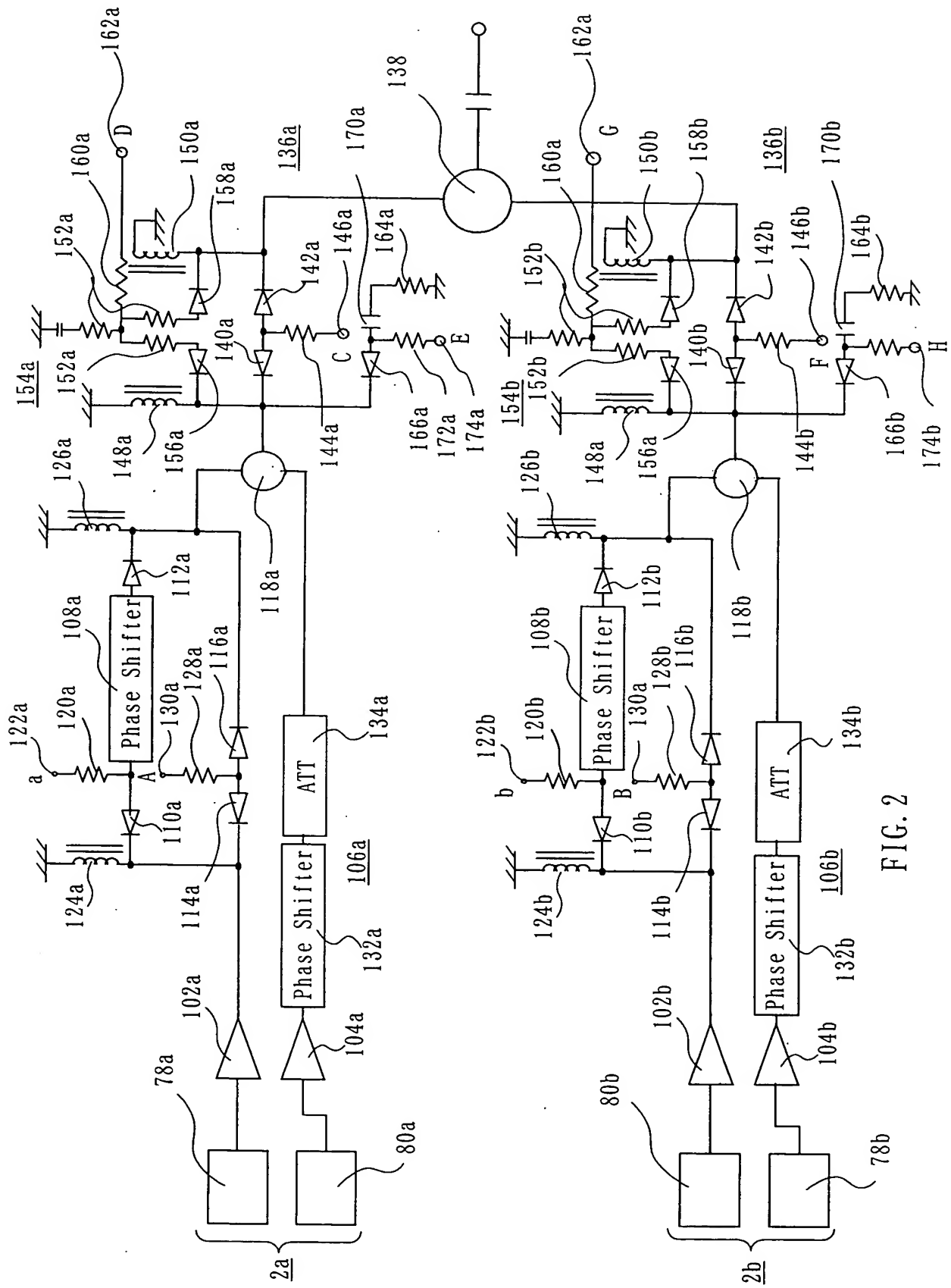


FIG. 2

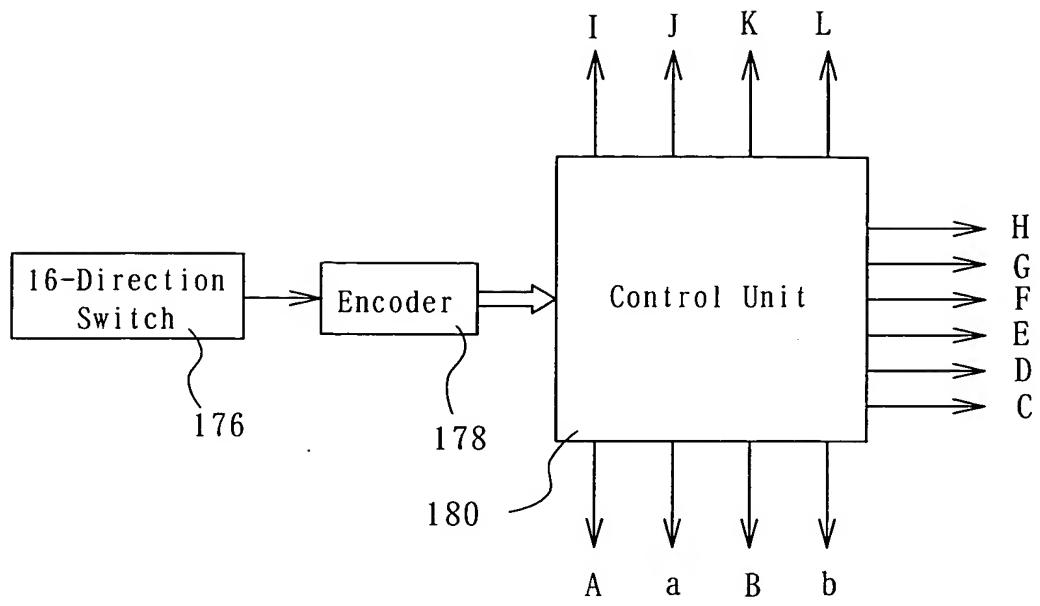


FIG. 3

Angle	Code	Switch Devices				Variable Attenuators					
						0dB	7dB	$\infty$ dB	0dB	7dB	$\infty$ dB
		a	A	b	B	C	D	E	F	G	H
0	0000	1	0	0	1	1	0	0	0	0	1
22.5	0001	1	0	0	1	1	0	0	0	1	0
45	0010	1	0	0	1	1	0	0	1	0	0
67.5	0011	1	0	0	1	0	1	0	1	0	0
90	0100	0	1	0	1	0	0	1	1	0	0
112.5	0101	0	1	0	1	0	1	0	1	0	0
135	0110	0	1	0	1	1	0	0	1	0	0
157.5	0111	0	1	0	1	1	0	0	0	1	0
180	1000	0	1	1	0	1	0	0	0	0	1
202.5	1001	0	1	1	0	1	0	0	0	1	0
225	1010	0	1	1	0	1	0	0	1	0	0
247.5	1011	0	1	1	0	0	1	0	1	0	0
270	1100	1	0	1	0	0	0	1	1	0	0
292.5	1101	1	0	1	0	0	1	0	1	0	0
315	1110	1	0	1	0	1	0	0	1	0	0
337.5	1111	1	0	1	0	1	0	0	0	1	0

FIG. 4

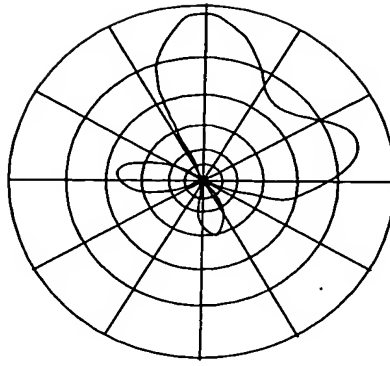


FIG. 5

FIG. 6A

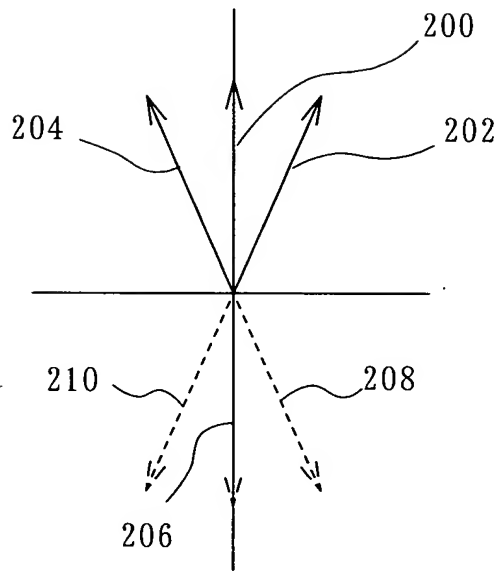


FIG. 6B

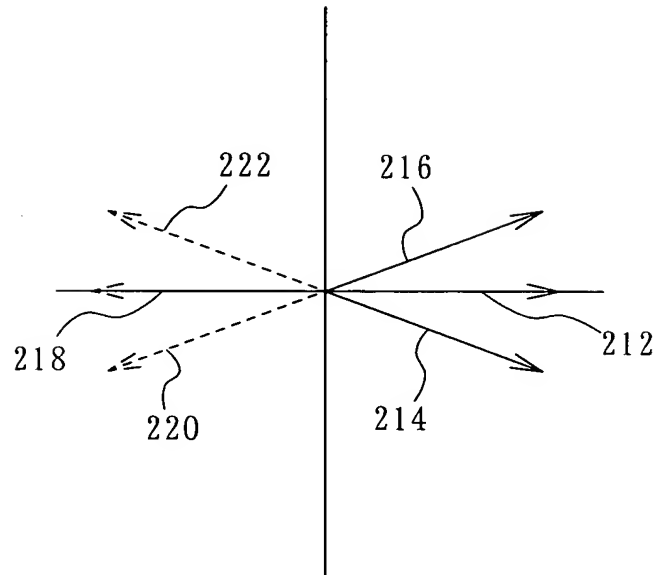


FIG. 6C

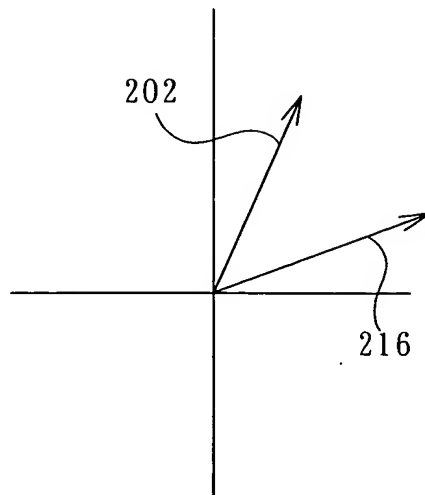
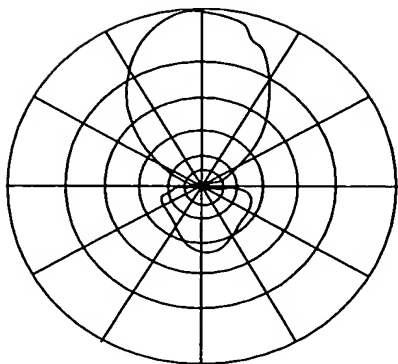
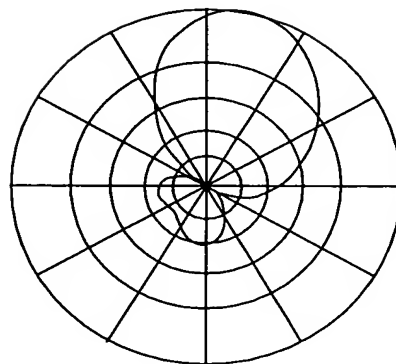


FIG. 7A



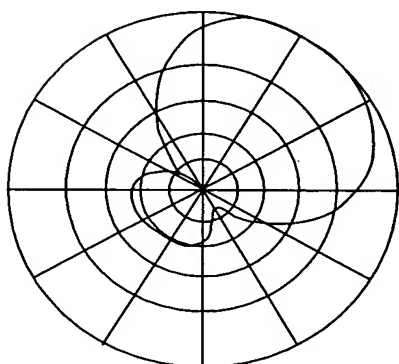
0°

FIG. 7B



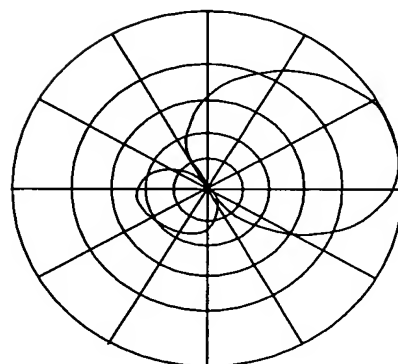
22.5°

FIG. 7C



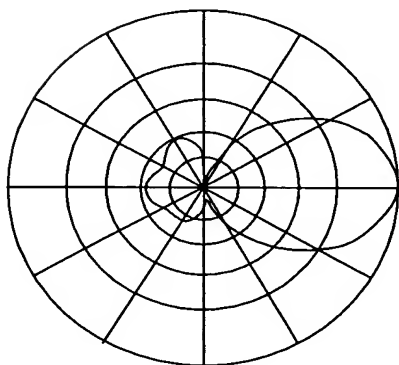
45°

FIG. 7D



62.5°

FIG. 7E

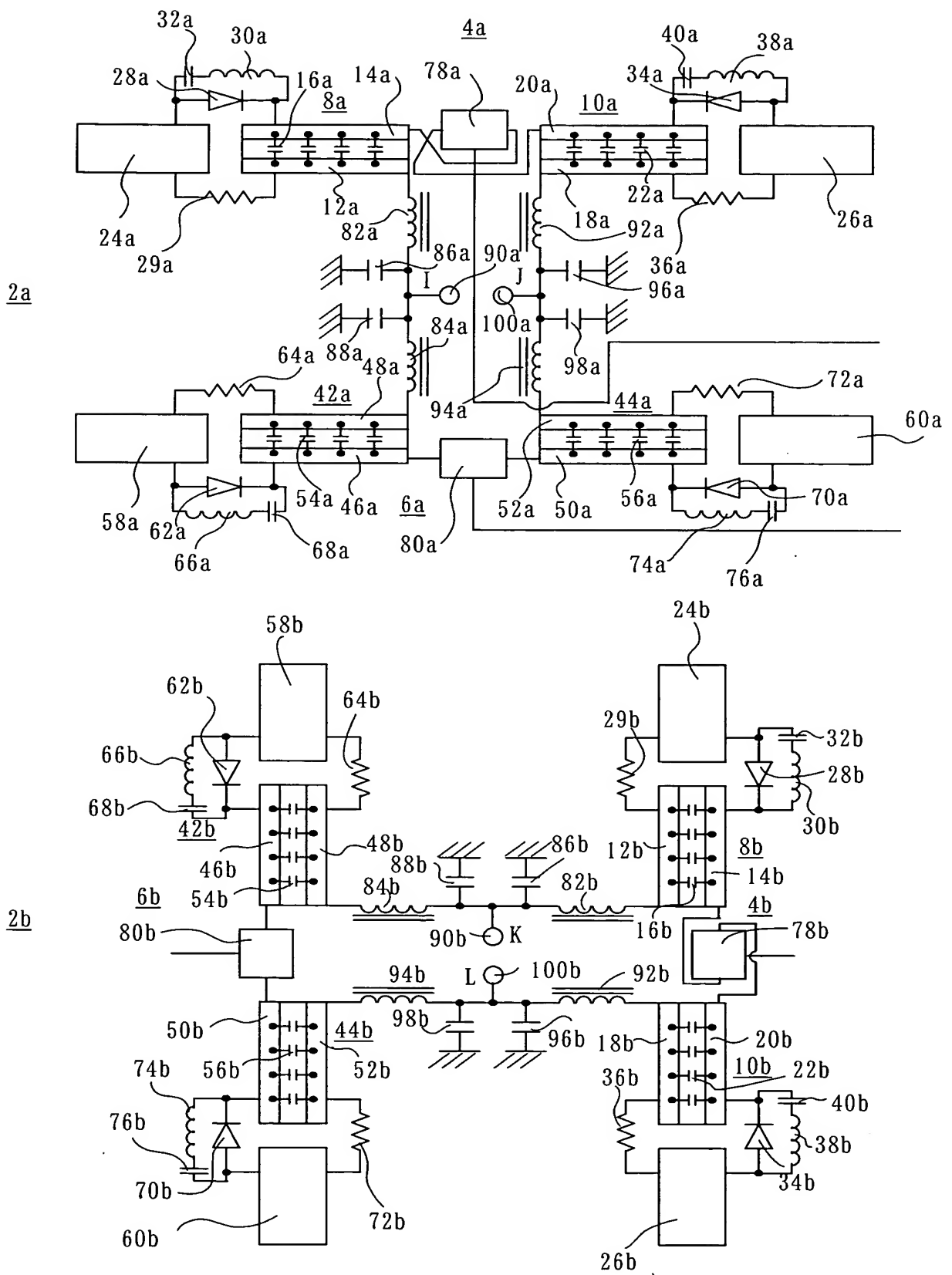


90°

Angle	Code	Switch Devices				Variable Attenuator						1st Antenna		2nd Antenna	
						0dB	7dB	∞dB	0dB	7dB	∞dB	Left	Right	Left	Right
		a	A	b	B	C	D	E	F	G	H	I	J	K	L
0	0000	1	0	0	1	1	0	0	0	1	0	0	0	0	
22.5	0001	1	0	0	1	1	0	0	0	1	0	1	1	0	
45	0010	1	0	0	1	1	0	0	1	0	0	1	1	0	
67.5	0011	1	0	0	1	0	1	0	1	0	0	1	1	0	
90	0100	0	1	0	1	0	0	1	1	0	0	0	0	0	
112.5	0101	0	1	0	1	0	1	0	1	0	0	1	0	1	
135	0110	0	1	0	1	1	0	0	1	0	0	1	0	1	
157.5	0111	0	1	0	1	1	0	0	0	1	0	1	0	1	
180	1000	0	1	1	0	1	0	0	0	1	0	0	0	0	
202.5	1001	0	1	1	0	1	0	0	0	1	1	0	0	1	
225	1010	0	1	1	0	1	0	0	1	0	1	0	0	1	
247.5	1011	0	1	1	0	0	1	0	1	0	1	0	0	1	
270	1100	1	0	1	0	0	0	1	1	0	0	0	0	0	
292.5	1101	1	0	1	0	0	1	0	1	0	1	0	1	0	
315	1110	1	0	1	0	1	0	0	1	0	1	0	1	0	
337.5	1111	1	0	1	0	1	0	0	0	1	1	0	1	0	

FIG. 8

FIG. 9





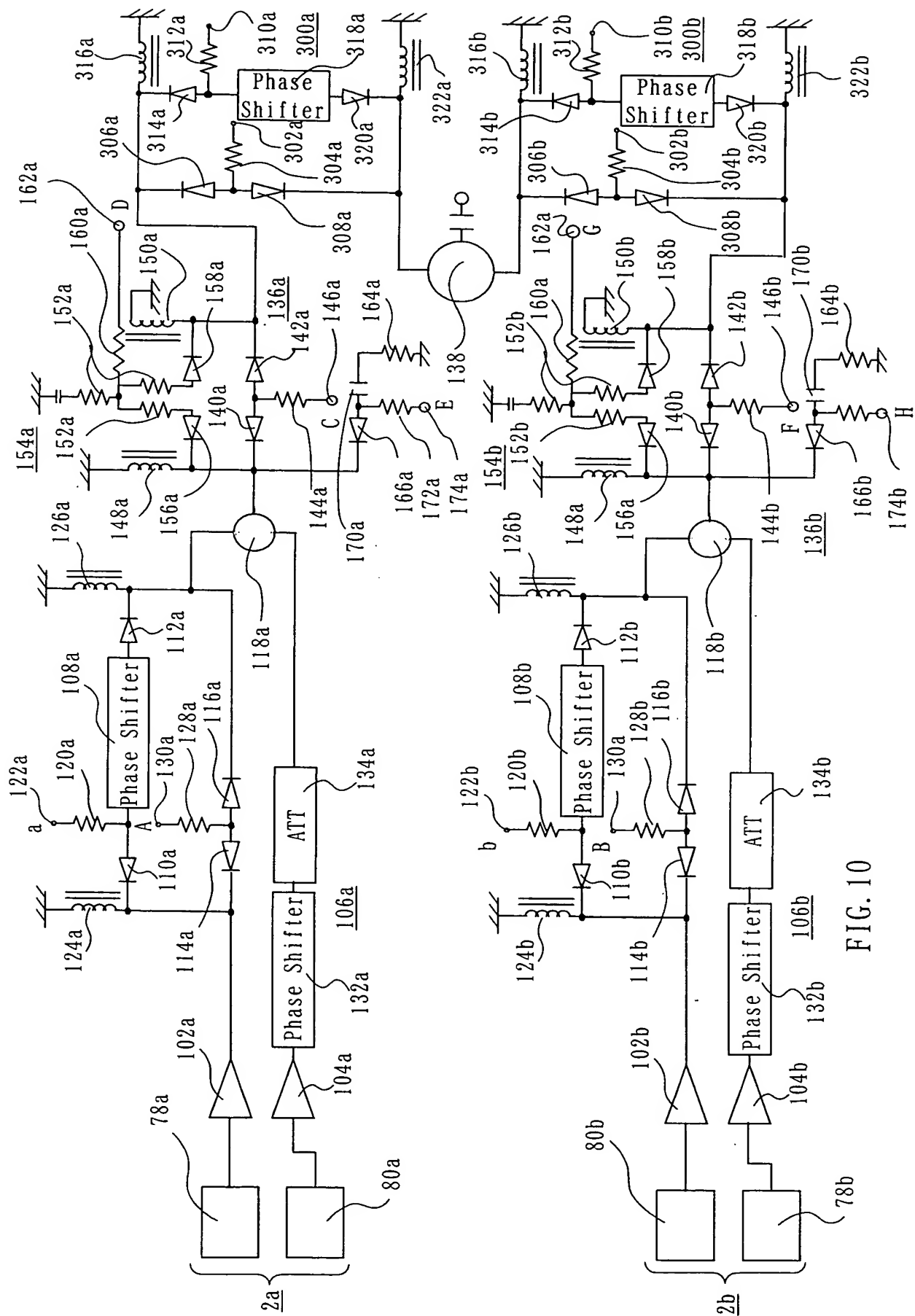
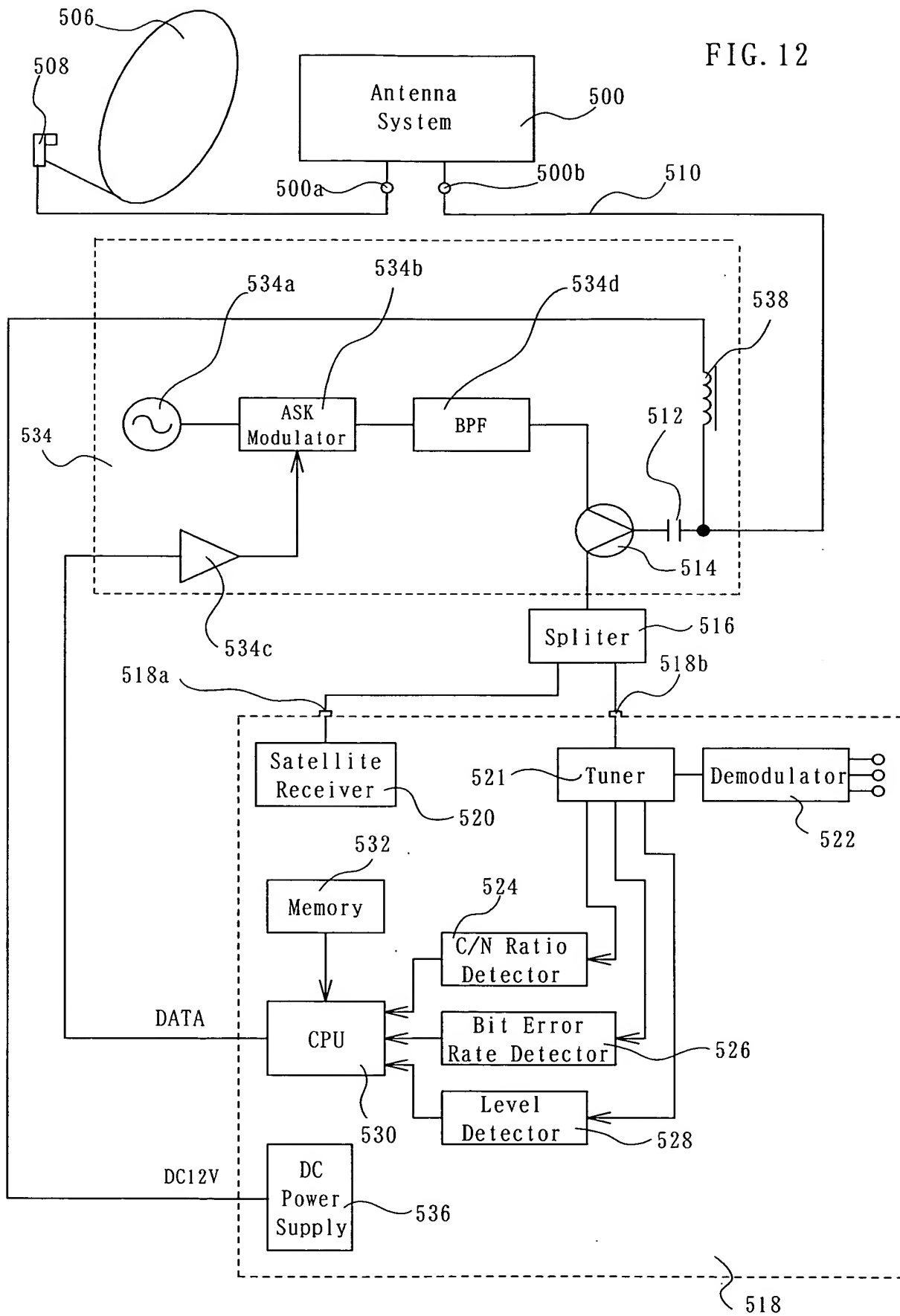


FIG. 10

Angle	Code	Switch Devices				Variable Attenuator						1st Antenna		2nd Antenna	
						0dB	7dB	∞dB	E	F	G	H	Left	Right	Left
		A	a	B	b	C	D	0dB	7dB	∞dB	I	J	K	L	
0	0000	1	0	0	1	1	0	0	0	1	0	0	0	0	
22.5	0001	1	0	0	1	1	0	0	0	1	0	1	0	0	
45	0010	1	0	0	1	1	0	0	1	0	0	1	0	0	
67.5	0011	1	0	0	1	0	1	0	1	0	0	1	0	0	
90	0100	0	1	0	1	0	0	1	1	0	0	0	0	0	
112.5	0101	0	1	0	1	0	1	0	1	0	0	1	0	1	
135	0110	0	1	0	1	1	0	0	1	0	0	1	0	1	
157.5	0111	0	1	0	1	1	0	0	0	1	0	0	0	1	
180	1000	0	1	0	1	1	0	0	0	0	1	0	0	0	
202.5	1001	0	1	1	0	1	0	0	0	1	0	0	0	1	
225	1010	0	1	1	0	1	0	0	1	0	0	0	0	1	
247.5	1011	0	1	1	0	0	1	0	1	0	0	0	0	1	
270	1100	1	0	1	0	0	0	1	1	0	0	0	0	0	
292.5	1101	1	0	1	0	0	1	0	1	0	0	1	0	0	
315	1110	1	0	1	0	1	0	0	1	0	0	1	0	0	
337.5	1111	1	0	1	0	1	0	0	0	1	0	1	0	0	

FIG. 11



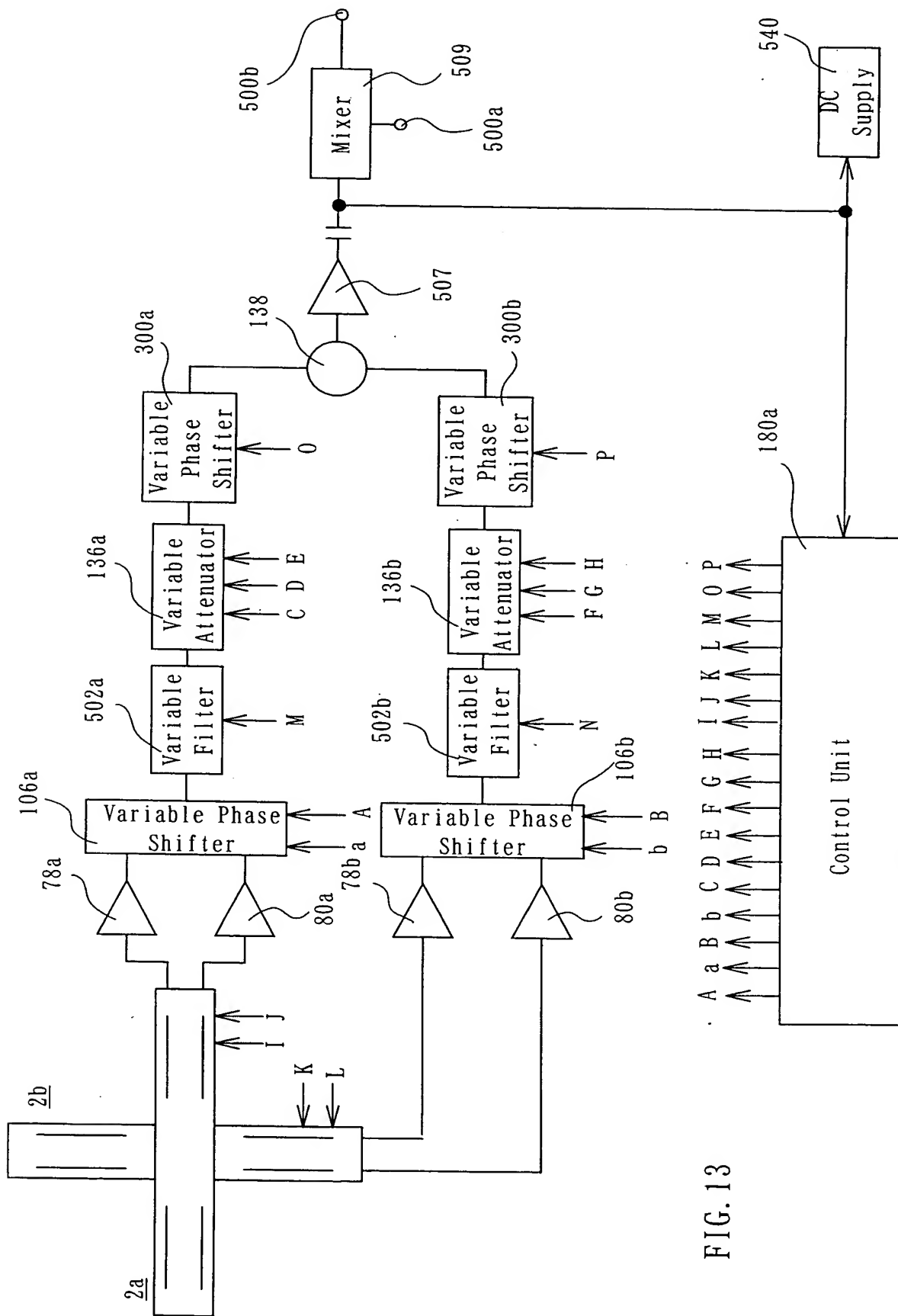


FIG. 13